



Bayer Corporation
November 6, 2002

SEQUENCE LISTING

<110> BAYER CORPORATION

<120> Pituitary Adenylate Cyclase Activating Peptide (PACAP) Receptor 3 (R3)
Agonists and Their Pharmacological Methods of Use

<130> Bayer

<150> 09/407,832

<151> 1999-09-28

<150> 09/595,280

<151> 2000-06-15

<160> 341

<170> PatentIn version 3.1

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys
20 25 30

Gln Arg Val Lys Asn Lys
35

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His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
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Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
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Ser Gly Ala Pro Pro Pro Ser
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His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
1 5 10 15

Xaa Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
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His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
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His Ser Asp Ala Val Phe Thr Glu Asn Xaa Thr Lys Leu Arg Lys Gln
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Xaa Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys
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Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Leu	Lys	Lys
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Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys
			20				25				

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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Gly Gly Thr
20 25 30

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His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Leu Asn Gly Gly Thr
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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Asn Gly Gly Thr
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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
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Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Gly	Gly	Thr
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Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys
			20				25				

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Val Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr
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His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Lys Leu Arg Lys Gln
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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Leu Lys Lys Gly Gly Thr Ser
20 25 30

Trp Cys Glu Pro Gly Trp Cys Arg
35 40

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Gly Gly Thr
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1				5					10					15	

Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Gly	Gly	Thr
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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Gly	Gly	Thr
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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Asn	Gly	Gly	Thr
			20					25					30	

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1				5					10					15	

Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Gly	Gly	Thr
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1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Gly	Gly	Thr
			20					25					30	

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Asn	Gly	Gly	Thr
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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Gly	Gly	Thr
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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Gly	Gly
			20				25					30	

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Gly
			20				25					

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys
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Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Gln
			20				25					

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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Asn	Gln
			20				25					30	

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1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Lys	Lys	Lys	Arg	Tyr
			20				25						30	

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Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys
			20				25				

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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn
20 25

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Lys
20 25

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Glu Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

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Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Leu	Asn
-			20				25				

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Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Leu	Asn
			20				25				

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Leu Asn
20 25

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
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Met Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Asn
20 25

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn
20 25

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<400> 42

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
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Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Leu	Lys
			20				25				

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Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys
			20				25				

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg Tyr
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys
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1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
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1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Lys	Arg	Tyr
			20					25					30	

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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg
20 25 30

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<400> 50

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys
20 25

<210> 51
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(31)
<223>

<400> 51

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 52
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(28)
<223>

<400> 52

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Lys	Lys
			20					25			

<210> 53
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(28)
<223>

<400> 53

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Ile	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Thr	Ile	Lys	Lys
			20					25			

<210> 54
<211> 144
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> synthetic gene
<222> (1)..(144)
<223>

<400> 54
ggatccatcg aaggctcgta ctccgatggt atcttcaccg actcctactc tcggtaccgc 60

aagcagatgg ctgtaaagaa atatctggct gcagtcctag gcaaacgtta caagcaacgc 120
gttaaaaaaca agtaatgact cgag 144

<210> 55
<211> 114
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> synthetic gene
<222> (1)..(114)
<223>

<400> 55
ggatccatcg aaggtcgtca ctccgacgct gttttcaccg acaactacac gcgtctgcgt 60
aaacagatgg ctgttaagaa atacctgaat tccatcctga actaatgact cgag 114

<210> 56
<211> 123
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> synthetic gene
<222> (1)..(123)
<223>

<400> 56
ggatccatcg aaggtcgtca ctccgatgct gttttcaccg aaaactacac caagcttcgt 60
aaacagctgg cagctaagaa atacctcaac gacctgaaaa agggcggtac ctaatgactc 120
gag 123

<210> 57
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(38)

<223>

<400> 57

His	Ser	Asp	Gly	Ile	Phe	Thr	Glu	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Leu	Lys	Lys	Lys	Arg	Tyr	Lys
			20					25					30		

Gln	Arg	Val	Lys	Asn	Lys
			35		

<210> 58

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 58

His	Ser	Asp	Ala	Val	Phe	Thr	Glu	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Leu	Lys	Lys
			20				25				

<210> 59

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (31)..(31)

<223> AMIDATION

<400> 59

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ser Ala Val Arg His Gly Gly Thr
20 25 30

<210> 60
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (31)..(31)
<223> AMIDATION

<400> 60

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Gln Gly Gly Thr
20 25 30

<210> 61
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (31)..(31)
<223> AMIDATION

<400> 61

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys Tyr Leu Ala Ala
20 25 30

Val Arg His Gly
35

<210> 62
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(40)
<223>

<400> 62

Ser	Trp	Cys	Glu	Pro	Gly	Trp	Cys	Arg	His	Ser	Asp	Ala	Val	Phe	Thr
1				5					10					15	

Glu	Asn	Tyr	Thr	Lys	Leu	Arg	Lys	Gln	Leu	Ala	Ala	Lys	Lys	Tyr	Leu
			20					25					30		

Asn	Asp	Leu	Lys	Lys	Gly	Gly	Thr
		35					40

<210> 63
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 63

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Leu	Lys	Gly	Gly	Thr
			20					25					30	

<210> 64
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (31)
<223>

<400> 64

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Leu	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Leu	Asn	Gly	Gly	Thr
			20				25					30		

<210> 65
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (31)
<223>

<400> 65

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Leu	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Asp	Ile	Leu	Lys	Gly	Gly	Thr
			20				25					30		

<210> 66
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (31)
<223>

<400> 66

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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<210> 67
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<221>    PEPTIDE
<222>    (1) .. (28)
<223>
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<400> 67

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys
20 25

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<210> 68
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<221>    PEPTIDE
<222>    (1) .. (28)
<223>
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<400> 68

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys
20 25

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<210> 69
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (28)
<223>

<400> 69

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Lys	Lys
			20					25			

<210> 70
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (28)
<223>

<400> 70

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys
			20					25			

<210> 71
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 71

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
20 25 30

<210> 72
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 72

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 73
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 73

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 74
<211> 31
<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (31)

<223>

<400> 74

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
			20					25					30	

<210> 75

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (31)

<223>

<400> 75

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
			20					25					30	

<210> 76

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (31)

<223>

<400> 76

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 77
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 77

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 78
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 78

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 79
<211> 31

<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 79

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10					15		

Met	Ala	Ala	His	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
			20				25					30		

<210> 80
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 80

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10					15		

Met	Ala	Ala	Lys	His	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
			20				25					30		

<210> 81
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 81

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Gln	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	His	Lys	Tyr	Leu	Asn	Thr	Ile	Lys	Asn	Lys	Arg	Tyr
			20					25					30	

<210> 82

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (31)

<223>

<400> 82

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Gln	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Leu	Ala	Ala	Lys	His	Tyr	Leu	Asn	Thr	Ile	Lys	Asn	Lys	Arg	Tyr
			20					25					30	

<210> 83

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 83

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Lys	Lys	Lys	Arg
			20					25					30

<210> 84

<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 84

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Lys	Lys	Arg
			20					25					30

<210> 85
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(31)
<223>

<400> 85

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg	Tyr
			20					25					30	

<210> 86
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 86

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg
20 25 30

<210> 87

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(29)

<223>

<400> 87

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys
20 25

<210> 88

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(31)

<223>

<400> 88

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr
20 25 30

<210> 89
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (31)
<223>

<400> 89

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys	Arg	Tyr
			20					25					30	

<210> 90
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 90

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys	Arg
			20					25					30

<210> 91
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (29)

<223>

<400> 91

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys
			20					25				

<210> 92

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (29)

<223>

<400> 92

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Lys	Asn	Lys
			20					25				

<210> 93

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (31)

<223>

<400> 93

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Val	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys	Arg	Tyr
			20					25					30	

<210> 94
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 94

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Val	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys	Arg
			20					25					30

<210> 95
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(29)
<223>

<400> 95

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Val	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Lys	Lys
			20					25				

<210> 96
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 96

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys
20 25

<210> 97
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (31)
<223>

<400> 97

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg Tyr
20 25 30

<210> 98
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 98

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg
20 25 30

<210> 99
<211> 29
<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (29)

<223>

<400> 99

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Leu	Asn	Lys
			20					25				

<210> 100

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 100

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Cys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 101

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 101

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Asp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
20 25 30

<210> 102
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 102

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Glu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
20 25 30

<210> 103
<211> 30
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<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 103

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Phe Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg
20 25 30

<210> 104
<211> 30

<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 104

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Gly	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 105
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 105

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	His	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 106
<211> 30
<212> PRT
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<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 106

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ile	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 107

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 107

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 108

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 108

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Leu	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 109

<211> 30
<212> PRT
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<220>
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<220>
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<222> (1) .. (30)
<223>

<400> 109

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Met	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 110
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 110

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Asn	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 111
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 111

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Pro	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 112

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 112

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Gln	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 113

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 113

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 114
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 114

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ser	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 115
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 115

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Thr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 116
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)

<223>

<400> 116

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 117

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 117

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Trp	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 118

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 118

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Tyr	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Arg
			20					25					30

<210> 119
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 119

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Ala	Asn	Lys	Arg
			20					25					30

<210> 120
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 120

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Cys	Asn	Lys	Arg
			20					25					30

<210> 121
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE

<222> (1) .. (30)
<223>

<400> 121

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Asp	Asn	Lys	Arg
			20					25					30

<210> 122
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 122

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Glu	Asn	Lys	Arg
			20					25					30

<210> 123
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 123

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Phe	Asn	Lys	Arg
			20					25					30

<210> 124
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1) .. (30)
<223>

<400> 124

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Gly	Asn	Lys	Arg
			20				25					30	

<210> 125
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 125

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	His	Asn	Lys	Arg
			20				25					30	

<210> 126
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>

<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 126

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Ile	Asn	Lys	Arg
			20					25					30

<210> 127
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 127

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Met	Asn	Lys	Arg
			20					25					30

<210> 128
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 128

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Asn	Asn	Lys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	20	25	30
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<210> 129
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 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(30)
 <223>

<400> 129

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Pro	Asn	Lys	Arg
			20				25					30	

<210> 130
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 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
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 <222> (1)..(30)
 <223>

<400> 130

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Gln	Asn	Lys	Arg
			20				25					30	

<210> 131
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 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 131

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Arg	Asn	Lys	Arg
			20				25					30	

<210> 132
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 132

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Ser	Asn	Lys	Arg
			20				25					30	

<210> 133
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 133

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Thr Asn Lys Arg
20 25 30

<210> 134
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 134

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Val Asn Lys Arg
20 25 30

<210> 135
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 135

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Trp Asn Lys Arg
20 25 30

<210> 136
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 136

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Tyr	Asn	Lys	Arg
			20					25					30

<210> 137
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 137

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Ala	Arg
			20					25					30

<210> 138
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 138

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Cys Arg
20 25 30

<210> 139
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 139

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asp Arg
20 25 30

<210> 140
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 140

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Glu Arg
20 25 30

<210> 141
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 141

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Phe	Arg
			20				25					30	

<210> 142

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 142

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Gly	Arg
			20				25					30	

<210> 143

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 143

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn His Arg
20 25 30

<210> 144
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 144

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ile Arg
20 25 30

<210> 145
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 145

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Leu Arg
20 25 30

<210> 146
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 146

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Met	Arg
			20				25						30

<210> 147

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 147

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Asn	Arg
			20				25						30

<210> 148

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 148

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Pro	Arg
			20				25						30

<210> 149
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 149

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Gln	Arg
			20				25					30	

<210> 150
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 150

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Arg
			20				25					30	

<210> 151
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>

<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 151

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Ser	Arg
			20				25					30	

<210> 152
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 152

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Thr	Arg
			20				25					30	

<210> 153
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 153

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Val	Arg
			20				25					30	

<210> 154
<211> 30

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 154

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Trp	Arg
			20					25					30

<210> 155
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 155

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Tyr	Arg
			20					25					30

<210> 156
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 156

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Ala
			20					25					30

<210> 157

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 157

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Asp
			20					25					30

<210> 158

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 158

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Glu
			20					25					30

<210> 159

<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 159

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Phe
			20					25					30

<210> 160
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 160

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Gly
			20					25					30

<210> 161
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1) .. (30)
<223>

<400> 161

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	His
			20					25					30

<210> 162

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 162

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Ile
			20					25					30

<210> 163

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 163

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Lys
			20					25					30

<210> 164
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 164

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Leu
			20					25					30

<210> 165
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PRPTIDE
<222> (1)..(30)
<223>

<400> 165

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Met
			20					25					30

<210> 166
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)

<223>

<400> 166

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Asn
			20					25					30

<210> 167

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 167

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Pro
			20					25					30

<210> 168

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1)..(30)

<223>

<400> 168

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Gln
			20					25					30

<210> 169
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 169

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Ser
			20					25					30

<210> 170
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 170

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Thr
			20					25					30

<210> 171
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE

<222> (1)..(30)
<223>

<400> 171

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Val
			20				25					30	

<210> 172
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 172

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Trp
			20				25					30	

<210> 173
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(30)
<223>

<400> 173

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Lys	Tyr
			20				25					30	

<210> 174
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(40)
<223>

<400> 174

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Gln	Ser	Ile	Lys	Asn	Lys	Arg	Tyr	Ser
			20					25					30		

Trp	Cys	Glu	Pro	Gly	Trp	Cys	Arg
		35					40

<210> 175
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> PEPTIDE
<222> (1)..(31)
<223>

<400> 175

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asp	Tyr	Thr	Arg	Leu	Arg	Lys	Glu
1				5					10					15	

Val	Ala	Ala	Lys	Lys	Tyr	Leu	Glu	Ser	Ile	Lys	Asp	Lys	Arg	Tyr
			20					25					30	

<210> 176
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 176

Glu	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 177
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 177

His	Lys	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 178
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 178

His	Ser	Lys	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 179

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 179

His	Ser	Asp	Lys	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 180

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 180

His	Ser	Asp	Gly	Lys	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 181
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 181

His	Ser	Asp	Gly	Ile	Lys	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 182
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 182

His	Ser	Asp	Gly	Ile	Phe	Lys	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 183
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 183

His Ser Asp Gly Ile Phe Thr Lys Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 184
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 184

His Ser Asp Gly Ile Phe Thr Asp Lys Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 185
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 185

His Ser Asp Gly Ile Phe Thr Asp Ser Lys Ser Arg Tyr Arg Lys Gln

1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 186
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 186

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Lys Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 187
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 187

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Glu Tyr Arg Lys Gln
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 188
<211> 27

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 188

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Lys	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 189
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 189

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Glu	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 190
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)

<223> AMIDATION

<400> 190

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Glu	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 191

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 191

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Lys
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20				25			

<210> 192

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 192

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Lys Ala Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 193
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 193

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Lys Val Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 194
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 194

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Ala Ala Val Leu
20 25

<210> 195
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 195

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Glu	Lys	Tyr	Leu	Ala	Ala	Val	Leu
			20						25	

<210> 196
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 196

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Glu	Tyr	Leu	Ala	Ala	Val	Leu
			20						25	

<210> 197
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> MOD_RES
<222> (27)..(27)
<223> AMIDATION

<400> 197

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Lys	Leu	Ala	Ala	Val	Leu
			20						25	

<210> 198

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 198

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Lys	Ala	Ala	Val	Leu
			20						25	

<210> 199

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 199

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Lys	Ala	Val	Leu
			20						25	

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<223> AMIDATION

<400> 200

His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Lys	Val	Leu
			20					25		

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His	Ser	Asp	Gly	Ile	Phe	Thr	Asp	Ser	Tyr	Ser	Arg	Tyr	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Val	Lys	Lys	Tyr	Leu	Ala	Ala	Lys	Leu
			20					25		

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1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys
20 25

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gag 123

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aaacagatgg cttccaagaa atacctgaac tccatccgta accgtatcta atgagaattc 120

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<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
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<400> 322

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Ala	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25					30	

<210> 323
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 323

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Gly	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25					30	

<210> 324
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<220>
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<220>
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<222> (1)..(30)
<223>

<400> 324

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
		20					25					30	

<210> 325
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<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
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<400> 325

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Lys	Asn	Arg	Ile
			20				25					30	

<210> 326
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<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 326

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Ile
20 25 30

<210> 327
<211> 30
<212> PRT
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<220>
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<220>
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<222> (1)..(30)
<223>

<400> 327

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
20 25 30

<210> 328
<211> 30
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<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 328

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
20 25 30

<210> 329
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<222> (1) .. (30)

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<400> 329

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Pro	Asn	Arg	Ile
		20					25						30

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<212> PRT

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<222> (1) .. (30)

<223>

<400> 330

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Pro	Asn	Arg	Ile
			20				25						30

<210> 331

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> synthetic construct

<220>

<221> PEPTIDE

<222> (1) .. (30)

<223>

<400> 331

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5					10					15	

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Pro Asn Arg Ile
20 25 30

<210> 332
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 332

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
20 25 30

<210> 333
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 333

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Gln Asn Arg Ile
20 25 30

<210> 334
<211> 30
<212> PRT
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<220>
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<222> (1)..(30)
<223>

<400> 334

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Gln	Asn	Arg	Ile
		20					25						30

<210> 335
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<220>
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<222> (1)..(30)
<223>

<400> 335

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Gln	Asn	Arg	Ile
			20				25						30

<210> 336
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
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<222> (1)..(30)
<223>

<400> 336

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Lys	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Arg	Asn	Arg	Ile
		20					25					30	

<210> 340
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<212> PRT
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<400> 340

His	Ser	Asp	Ala	Val	Phe	Thr	Asp	Asn	Tyr	Thr	Arg	Leu	Arg	Lys	Gln
1				5				10						15	

Met	Ala	Arg	Lys	Lys	Tyr	Leu	Asn	Ser	Ile	Arg	Asn	Arg	Ile
			20				25					30	

<210> 341
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<212> PRT
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<220>
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<220>
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<223>

<400> 341

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile
20 25 30

